

**Player choice game feature**

**Field of the Invention**

This invention relates to a gaming machine. More particularly, the invention relates to a gaming machine and to an improvement to a game  
5 played on such a gaming machine.

**Background to the Invention**

Players who regularly play gaming machines quickly tire of particular games and therefore it is necessary for manufacturers of these machines to  
10 develop innovative game features which add interest to the games. In so doing, it is hoped to keep players amused and therefore willing to continue playing the game as well as to attract new players.

Also, with the growth that has occurred in the gaming machine market, there is intense competition between manufacturers to supply various  
15 existing and new venues. When selecting a supplier of gaming machines, the operator of a venue will often pay close attention to the popularity of various games with their patrons. Therefore, gaming machine manufacturers are keen to devise games which are popular with the players as a mechanism for improving sales, retaining customers and attracting new customers.

**Summary of the Invention**

In a first aspect of the present invention, there is provided a gaming machine having a display means and a game control means arranged to control images displayed on the display means, the game control means  
25 being arranged to play an underlying game wherein one or more random events are caused to be displayed on the display means and, if a predefined winning event occurs, the machine awards a prize, the gaming machine being characterised in that on the occurrence of a predefined event, the player is offered a choice of two or more different prize sets, each set  
30 containing a plurality of prize outcomes, from which prize sets a prize is to be drawn and awarded to the player, typically by a random process, wherein the prize is drawn from the prize set or sets selected by the player.

The prize sets have different prizes in them, and although each prize set may have duplicates of the prizes in the prize set and may repeat the  
35 prizes in the second or further prize sets, overall the prize sets will not be identical to one another.

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The different prizes in the prize sets will effect the volatility of the feature game. One or more of the prize sets may include non winning prize outcomes. Preferably, including the non winning prize outcomes, each prize set will have the same number of potential outcomes.

5 Typically, the prize sets vary from a relatively even distribution of relatively small prizes to sets where one or more large prizes may be won but which include a relatively large number of zero or consolation prize outcomes. Hence, if the player is conservative, that will permit them to choose a prize set having a set of possible outcomes that will be guaranteed  
10 or almost guaranteed to result in that player winning a prize, even if that prize may be relatively small. A more aggressive player may choose a prize set which presents an opportunity of winning much larger prizes, but a much greater chance that the player will win nothing at all or only a consolation prize.

15 The method by which the game feature is triggered, is not significant and might typically be the occurrence of a special combination during the base game or alternatively the triggering may occur at random.

The type of underlying game is not critical to the invention and could be a spinning reel game, a card game, keno, bingo, pachinko or any style of  
20 gambling game.

In one embodiment, each prize set is presented to a player differently. For example, one set may take the form of a wheel, another set may take the form of a board game, and another set a bag of tricks. However, in the preferred embodiment, the sets of prizes are represented by wheels that can  
25 spin (or more typically simulate spinning) to stop randomly on a segment which defines the prize outcome won by the player.

In an alternative embodiment, a plurality of representations of board games are provided. The player choses which board they wish to play. A random selection such as a dice roll will indicate the number of positions  
30 around the selected board that the player will move with the square on which the player lands being the square that provides the prize outcome.

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### **Brief Description of the Drawings**

The invention is now described by way of example with reference to the accompanying diagrammatic drawings in which:-

Figure 1 shows a three dimensional view of a gaming machine, in accordance with the invention;

Figure 2 shows a block diagram of a control circuit of the gaming machine;

Figure 3 shows a screen which appears on a gaming machine following the triggering of the game feature of the present invention;

Figure 4 shows a screen which appears after the player has selected the wheel of their choice from the screen shown in Figure 3;

Figure 5 shows an alternative selection of wheels to that shown in Figure 3;

Figure 6 shows a flow chart diagram for the described embodiment of the invention;

Figure 7 shows a screen display of a yet further variant of the invention;

Figure 8 illustrates a further embodiment of the present invention and in particular shows a screen which appears on a gaming machine following the triggering of the game feature of the present invention; and

Figure 9 shows a screen after the player has selected the die of their choice from the screen of Figure 8.

### **Detailed Description of the Preferred Embodiments and Examples**

In Figure 1, reference numeral 10 generally designates a gaming machine, including a game, in accordance with the invention. The machine 10 includes a console 12 having a video display unit 14 on which a game 16 is played, in use. The preferred form of a base game of the game 16 is a spinning reel game which simulates the rotation of a number of spinning reels 18. It will, however, be appreciated that the invention is equally applicable to other types of base games such as card games, pachinko or ball games such as Bingo or Keno, or any type of gambling game. A midtrim 20 of the machine 10 houses a bank 22 of buttons for enabling a player to play the game 16. The midtrim 20 also houses a credit input mechanism 24 including a coin input chute 24.1 and a bill collector 24.2.

The machine 10 includes a top box 26 on which artwork 28 is carried. The artwork 28 includes paytables, details of bonus awards, etc.

A coin tray 30 is mounted beneath the console 12 for cash payouts from the machine 10.

5 Referring now to Figure 2 of the drawings, a control means or control circuit 40 is illustrated. A program which implements the game and user interface is run on a processor 42 of the control circuit 40. The processor 42 forms part of a controller 44 which drives the screen of the video display unit 14 and which receives input signals from sensors 46. The sensors 46 include  
10 sensors associated with the bank 22 of buttons and touch sensors mounted in the screen 16. The controller 44 also receives input pulses from the mechanism 24 indicating that a player has provided sufficient credit to commence playing. The mechanism 24 may, instead of the coin input chute 24.1 or the bill collector 24.2, or in addition thereto, be a credit card reader  
15 (not shown) or any other type of validation device.

Finally, the controller 44 drives a payout mechanism 48 which, for example, may be a coin hopper for feeding coins to the coin tray 30 to pay a prize once a predetermined combination of symbols carried on the reels 18 appears on the screen 16 or some other prize winning event occurs.

20 The player plays the base game, which, as discussed above in the described embodiment, is a video reel game (a video simulation of spinning reels). The novel game feature of the present invention relates to a feature game which is triggered on the occurrence of a predetermined combination of symbols on the display, or at random, or by some other process.

25 Referring to Figures 3 and 4, in one embodiment of the present invention, on the occurrence of the triggering event, the screen of the gaming machine changes to show three wheels 50, 52, 54. Each wheel has eight segments 50.1, 50.2, ... 50.8; 52.1, 52.2, ... 52.8; 54.1, 54.2, ... 54.8 respectively. The arrangement of potential prizes, in the described  
30 embodiment (credits) on the wheels, affect the volatility of the game feature. Thus, for example, the spinning wheel 50 which provides the potentially greatest reward to the player of 1000 credits (segment 50.8), also provides seven zero outcomes (50.1 to 50.7), so it is the most volatile wheel. Wheel 52 offers four prizes and four zero outcomes with the biggest prize being 500  
35 credits (segment 52.6). With wheel 54, the player is guaranteed a prize. The maximum prize available is 200 credits (segment 54.6), and the minimum

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guaranteed prize is 50 credits (segments 54.7 and 54.4). The total theoretical return to the player, is preferably the same regardless of the wheel the player chooses. For example, assuming that the wheel spin is not weighted, i.e. that there is an equal probability of any of the sectors being selected as a prize outcome, all three wheels 50, 52, 54 shown in Figure 3 should theoretically provide an average of 1000 credits to a player for every eight game features that are played. Once the player has selected a wheel the wheel is enlarged and shown alone on the screen. Figure 4 illustrates an enlarged wheel 54 which appears after that wheel has been selected. When the player presses the start button, the wheel then simulates spinning and the prize that is shown in the segment indicated by the pointer 60 after the wheel stops spinning is the prize outcome that is awarded to the player.

Other types of prizes other than just fixed credits, may be awarded, including free games, mystery prizes, "next win multiplied by five" etc.

Figure 5 shows an exemplary display showing the wheels having a selection of different prizes. As shown, wheel 70 gives the option of 100 free games or a mystery prize with six no prize outcomes. Wheel 72 provides a mystery prize, or 20 free games, or an opportunity for the player to spin again, with five no prize outcomes. Wheel 74 provides a prize in each segment including "spin again", 10, 20, or 50 credits, 5 or 8 free games, a mystery prize and the player's "next win multiplied by 5". A feature of the wheel selection shown in Figure 5 is that because very different prizes are provided on each reel it is more difficult for a player to work out which reel, if any, offers him the best odds of winning. This makes the choice more challenging and stimulating for the player.

Figure 6 shows a flow chart for the described embodiment of the invention.

In an alternative embodiment, illustrated in Figure 7, three wheels 80, 82, 84, could be displayed concentrically instead of the side by side arrangement shown in Figure 3. In this case a player presses a button to indicate whether they wish to spin wheel 1, 2 or 3. In this case the display does not go to another screen as with the first embodiment - the chosen wheel just spins while the non-selected wheels remain stationary.

In a variant to the inventions described above the player may be allowed to select more than one prize set, as long as the number of sets chosen by the player is less than the total number of available prize sets. For

example for the screens shown in Figures 3, 5 and 7 the player may be required to chose two wheels to spin. In the embodiments shown in Figures 3 and 5 the chosen wheels may spin one after the other and the prizes may be accumulated from the two wheel spins. In the version shown in Figure 7 both chosen wheels may spin simultaneously, leaving the non-selected wheel stationary. Again the prize outcomes on both of the spun wheels are paid.

Figures 8 and 9 show a yet further embodiment of the present invention. In this embodiment instead of wheels the various prizes are displayed on the faces of a 3-D object such as a die. Figure 6 illustrates a selection screen in which the player is offered the choice of five dice 90, 92, 94, 96, or 98. As only three faces of each die are visible at any one time underneath each die there is a list of the prizes shown on each face of that die. the list also gives the average (mean) win per spin of that die which for all the dice is \$25, although the volatility of the dice differ from one another, with die 90 being the least volatile and die 98 being the most volatile with a single winning face showing a prize outcome of \$150. The player uses buttons or touches the screen to select one of the dice. The chosen die then is shown enlarged in a further screen display such as is shown in Figure 9. When the player presses the start button the die will animate and start spinning or turning before stopping to reveal a prize outcome. In the embodiment shown in Figure 9 the player has chosen die 98 and the Figure shows the die prior to spin of the die.

It will be appreciated by persons skilled in the art that numerous variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.